

A SAMPLE SPEECH.

The Political Candidate Gets in His Work on the Farm.

The farmers gathered together at the various county fairs this year had on exhibition, in addition to the usual assortment of horse-drawn, prize-bred, three-card monte men and other agricultural products of this great state, a new and original political candidate and his remarks.

A condensed report of the average speech of the last-named exhibit is appended. Gentlemen, agriculturists and brothers: I am proud to speak to you to-day, proud to have the opportunity of addressing the men who feed us all—the farmers: proud to have the corn of the horse-hoofed sons of toil.

I love to meet you in your own open country, where the tall potato vine raises its silken crowned tassels, and where the cucumber tree drops its pungent pickle upon the mellow ground.

When in the city, cooped up in walls of bricks and mortar, my thoughts of wander to the meadows and woodlands, where the deep red blossoms of the green fields and wheat are announcing a prospective yield of ten tons of oats to the acre, and the butter-nut tree is yielding its store of thick cream.

Gentlemen, I say that when I think of the strawberry bush putting forth its tender leaves and vying with the clover tree in its efforts to beautify the landscape, I want to leave the mill and toll and carrying care of city life behind me, and the green fields and pleasant woods, and in indolent ease lie on a spring bed of maple sugar and gaze through the overhanging branches of the lettuce tree to the blue vault above.

The charms of country life ever had for me an irresistible fascination. Born over yonder in East Sandy township, for several long, happy years it was my lot to prune the tomatoe, graze the redskins, raise the cabbage, reap the barley, shake up the asparagus beds, and do such similar chores as a boy of my size could.

In addition to these duties I have often ridden the goose to water, milked the sorrel steer and gathered the teeming fruits of the turnip tree. It was there I learned the proper time to shear the goose when the moon was full, and that the turns in a chestnut horse's tail could only be successfully eradicated when the moon was new.

There, too, I learned that the subsoil plow should only be used in harrowing white clover, and that young bulls should never be harnessed to the fall until they have been broken to the threshing machine.

Often have I sat on the cow-catcher of the reaper and assisted in harvesting the bounteous crop of corn. Many are the evenings I have passed full merrily in pleasant company, when all the boys and girls of the neighborhood would meet and hold a grand potato shucking or corn-winning, when apples and innocent hard cider formed the exhilarating beverage.

I will say no more. I have told you enough, gentlemen, to convince you that your aspirations are my aspirations, your hopes my hopes, and that your education has been my education, and that if I am elected by your valuable suffrages to the office for which my friends have insisted I shall run, I shall ever remember that if the farmer's interests are paramount in this country they are undoubtedly the most important.

W. H. GIVINS.

POPULAR SCIENCE.

Points of Interest Engaging the Attention of Scientists.

The bacteria of water and ice have been found in hail by Professor L. Maggi, an Italian physician. Such organisms are well-nigh universal.

The transparency of molten iron, noticed during a casting of several tons, has been recorded by Mr. W. Ramsay. It has a yellow tinge.

The River Turia, at a point thirty-five miles away, is to be utilized for running the factories of Valencia, Spain. The 5,000-horse power available will be transmitted by electricity.

The idea of putting monkeys to work seems to have been accomplished in Brazil, where, according to a report from Rio Janeiro, twenty of these animals have been successfully trained to cut hemp on a large hemp farm.

A petroleum exhibition is soon to be held in St. Petersburg, in connection with which the Russian minister of war offers a prize of 500 roubles for the best specimen of kerosene for electric lighting with incandescent lamps.

Professor Lodge's discovery of the remarkable effect of static electricity in freezing the air from dust and vapor has been noted by Mr. J. G. Lorrain in the construction of an apparatus for dissipating the smoke produced by the discharge of cannon.

Disasters to eyeglasses are evidently more common than is generally supposed. According to the statement that more than 2,000,000 glass eyes are made annually in Germany and Switzerland, an artificial eye seldom lasts more than a year, the secretion of the glands turning it cloudy.

Dr. Murray, of the Royal Society of Edinburgh, estimates the mean height of the land of the globe to be between 1,000 and 1,100 feet, the latter figure being probably the more nearly correct. Humboldt's estimate of the mean height of the continents was 1,000 feet.

An effective method of petrifying animal bodies was claimed by Dr. G. B. Massadaghi, a distinguished Padua chemist, who died more than forty years ago. The secret of the process was lost for his lifetime, but it has only very recently been found. The discovery so long looked up is now eagerly sought, and large sums have been offered for it—thus far unsuccessfully.

The plan of utilizing coke dust by making it into briquettes has been successfully adopted by a gas company at Lyons, France. This is accomplished by mixing such ton of fine coke with water, which is then pressed into a coal-pitch and then passing it through a compressing machine. The total cost is \$4 a ton, and the product readily sells for \$5.50 and \$6 a ton. The expense for taking the dust, with a capacity of sixty-five tons daily, was only \$5,000.

Professor C. W. Vogel communicated to the members of the Berlin Physical Society, at one of their recent meetings, a very ingenious discovery, by which it is now possible to obtain instantaneous photographs, not only at night but also in the day.

Messrs. Goedicke and Mische have prepared a mixture of pulverized manganous chloride of potash, and sulphide of antimony, which, when ignited, produces an explosion resembling the illumination of such intensity that by means of it an instantaneous photograph may be taken. The speaker gave a demonstration of the discovery by taking photographs of several persons present. He used the artificial light, of which each flash lasted one-fourth of a second, and in a few minutes produced a picture during the meeting.

The powder, as prepared by the discoverers, cost only a few pennies each, and will hence rapidly come into general use.

Burning Carbons.

How to dispose of the garbage is one of the questions that is troubling large cities. At present the system of burning the same is common, and the Philadelphia board of health has sought information concerning the process of the device. From the report received, it was found that the burning of garbage at a cost of \$4,000 for each furnace, or about one cent of the cost of the same, would be a very profitable business.

It is the concentration of the heat of the sun, which is the source of the earth's energy, that is the cause of the earth's life.

STORMS.

KNOWLEDGE OF WEATHER IN THE PAST AND PRESENT.

What Benjamin Franklin Discovered Years Ago Concerning the Causes of the Wind—What is Known To-day—Scientific Investigations and What They Have Shown.

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BENJAMIN FRANKLIN.

Benjamin Franklin discovered the solitary fact that storms move in a north-easterly direction, the knowledge of weather compared with our modern weather science about as Webster's blue spelling book, containing the picture of the boy in the apple tree, compares with modern illustrated press-work. Science is no longer an abstruse matter for scholarly minds in which the masses have no special interest. It has become utilitarian, and is being more and more popularized. To the progress made in the youngest of sciences—meteorology—and that mainly through the work of the United States weather service, we owe much. The system of meteorology that has been developed and is receiving popular appreciation is moreover gradually sweeping away the preposterous claims of weather prophetic power, the recognition of which has not been complimentary to the general intelligence of the age.

As every one knows, the conditions of the weather most important to human interests are temperature, wind and rain. These conditions are associated with the



Map of the United States showing weather patterns and storm tracks.

passage of storms, and as they are bound up with the varying weight of the atmosphere, the barometer, which indicates the weight or pressure of the air, furnishes the key to the weather changes.

Weather maps representing a considerable part of the earth's surface, as the United States and the adjacent portions of the British possessions, show two distinct systems of atmospheric pressure, the forms and positions of which change from day to day. The data necessary for the construction of the weather map being properly placed upon a map of the country, concentric lines connecting places where the barometers read alike can be traced inclosing these systems. In one the lines will be found to inclose pressures successively less until in about the center of the system the least pressure is located. In the other the lines will inclose pressures successively greater until in about the center of the system the greatest pressure is located.

The former system is known as an "area of low barometer" or cyclone, and the latter as an "area of high barometer" or anti-cyclone. Well-defined areas of low barometer are the distinguishing characteristics of the great storms, the hurricanes and typhoons of tropical regions and the ordinary storms of the middle latitudes. They are all comprehended under the general name cyclone.

It is upon this wonderful atmosphere of ours that we depend for the temperature and the elements that make life possible. The heat of the sun is the chief factor in the development and preservation of life, as it is also, by reason of its agency in upsetting the equilibrium of the atmosphere, the power of destruction and desolation. To meet the requirements of life it is essential that the surface of the earth and the lower strata of the atmosphere receive and retain the greatest amount of heat.

This need is provided for in the case with which the sun's heat passes through the atmosphere, concentrating on the earth's surface and in the lower strata, and the difficulty with which it is radiated back by the earth. In this respect the atmosphere serves the same purpose as glass, and the gardener gives us a practical illustration when he covers his plants with glass, which freely permits the passage of the sun's heat and prevents

a storm gradually rises into the colder strata of the atmosphere and condensed its vapor of water into clouds and rain, which conditions are carried into the upper rear portion of the storm, where, under a falling temperature, the rain turns to snow, and, under the influence of evaporating northwesterly winds, the sky presently clears of bright and cold. Joy present clear, "Fair weather cometh out of the north," and Solomon wrote, "The north wind driveth away rain."

Attending storms we find the broadest features of weather to be as shown in the diagram:

The lines, called "isobars," returning into themselves, inclose the circling mass of atmosphere which constitutes "the storm." The dotted lines, called "isotherms," whatever their values may be, show the usual trend of temperature lines in relation to storms. The arrows (local wind directions) and legends have no geographical reference, but show the weather conditions surrounding a progressive storm. The whole revolving mass propagates itself in an easterly direction, the average direction of movement being northwesterly.

In the southeastern portion of the diagram we see the region in relation to a storm where the weather is clear and very warm, with the red sunsets and yellow moon that indicate a prolongation of fair weather. "When it is evening ye say it will be fair weather, for the sky is red." In the heated southwesterly currents that prevail southeast of the storm, cumulus clouds are formed and sail northward. These soon enter the region in front of the storm, where the higher cirrus are found, and combining with the form the cirro-stratus, and presently there is a gloomy, overcast sky and rain. Attending the higher cirro-stratus we find a watery sun, a pale moon, and a halo-forming sky. "The moon with a circle brings water in her back." It generally occurs in the extreme front of a storm area, and, as perhaps, our first indication of a coming change of weather. The pale moon and watery sun are indications of the increasing dampness of this part of the storm.

If the sun goes pale to bed, 'Twill rain to-morrow, it is said.

As the storm advances and the central whirl comes near we have a stronger in-draught of air, the clouds become soft and lowering and the lights of cities, reflected in the air, become muggy and gloomy, and our decayed teeth, old wounds, corns, neuralgia or rheumatic pains foreboding storm. Old becomes more frequent, sounds are heard and objects seen at greater distance

and rain becomes rainier. The thunder-rain is not till and the sun is lower.

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heated and therefore light and expanding stratum, underlying a mass of cold and therefore dense and heavy atmosphere, seeks to rise. Finding in some favorable locality an escape through the overlying obstruction, an upward stream of current sets in, and to this point the adjacent surface air flows and ascends in the upward current. When the uprush is fairly under way the air flowing in from all sides quickly gains velocity and a whirling motion is established. You may illustrate this by filling a barrel with water. Open the hole and give the water an initial agitation, and you will find it moving around the sides of the barrel while it is passing out of the hole at the bottom. The whirl increases in dimensions until there is a great revolving movement of atmosphere. A storm then is an immense area of circling winds, from which it gets the appropriate name "cyclone." It is a general inward atmospheric movement toward and around a center.

Storms are fed and maintained by ascending currents of warm, moist air from their eastern and descending currents of cold, drying air, to take the place of the former, on their western side. The lighter air and rainfall in front of a storm induce the storm to move in that direction. This, together with the pushing force of the increasing pressure applied by the heavier descending currents of air of rear of the storm, determines the direction of the storm's movement. Temperature and moisture increase at places toward and over which the front part of the storm is moving, and decrease at places over which the rear part of the storm has passed. With rising temperature and increasing moisture in front of the storm, pressure decreases and the barometer falls; while with falling temperature and drying air in rear of the storm pressure increases and the barometer rises. Moist regions attract a storm, and dry, hazy, smoky atmosphere prevail counteracting the tendency to storm formation and rain, and, repel, deflect, or at least retard the approaching storm. The circling winds carry the warm, vapor-laden southerly air around the front and across the northern end of the major axis of a storm, and bring the cold, drying, northerly air around the rear and across the southern end of this axis. This explains why it is generally kept warm in the north, and the further north the warmer our summer and longer our autumn, because the warm southerly air preponderates. We see on the diagram that the surface air within the influence of a storm is drawn toward the center of the storm. It is a mistaken popular notion that a storm comes from the east because the wind blows from that quarter. Easterly winds generally indicate the approach of a storm from some westerly point.

In the southeastern quadrant of a cyclone, or storm, generally occurs the collision of fierce currents resulting in the tornado.

GOSIP AND SLANDER.

The Wide Difference Which May Exist Between the Two.

There is a wide distinction between gossip and slander. Gossip may be true or false; slander implies a lie. Gossip may be good-natured, or ill-natured; slander is born of malice. Gossip may be edifying, or disgusting; slander degrades alike him who talks and him who listens. Gossip may sometimes lead to practical results and be pregnant with valuable suggestions; slander never helps any cause but that of the Evil One.

Gossip may be defined as talk about the little affairs of other people. These are, strictly speaking, none of your business; but there is this to be said—other people are certain to occupy themselves with your little affairs. Indeed, the social nature of humanity seems to involve an interest in what concerns our fellows, independent of its relation to ourselves. And there is another cause for the universal propensity to gossip.

It has been said that no man is here to his valet. It may also be overthrown that enormous capacity for self-delusion, men cannot be admirable in their own eyes. There are thousands of petty weaknesses, secret foibles, resisted yet serious temptations and unspeakable thoughts for which we have to reckon with our conscience. It is a satisfaction to find that we are not alone in these experiences—that what some lucky chance, it may be, has alone saved us from, Jones has actually committed; that peerilities we are smothering away in our own hearts and minds have been openly manifested by Smith. This brings in personal vanity to be gratified by piquant disclosures of a friend's peccadilloes, and imparts to gossip, perhaps, its most attractive quality. But, gossip, nevertheless, deals with lighter matters than slander, and may be of good things as well as naughty.

One of the greatest errors fostered by a literature too exclusively masculine is that gossip is the peculiar province and delight of womankind. It requires a great deal of effort for an observant man to maintain this position. The male sex, he cannot but perceive, spends hours of the so-called business part of the day in the latest gossip. But the dear credulous creature at home, who receives as gospel everything that "protectors" tell them, and a great deal more that is told them by others, have, of course, no idea how much "business" consists in the way of placidly listening to and chatting on the news of the day in lounging around street-corners, or in clubs and restaurants, and discussing the private concerns of men—in short, in gadding and gossiping. What a comfort it is that they have been kept in their lords and masters, and are so healthfully conscious of their own inferiority!

A Story Teller.

Mr. Lawrence Jerome stands alone in New York as a story-teller and wit. He can literally tell funny stories by the hour and the peculiarity of his case is that it does not matter to the least what company he is in, he is equally happy. He has been known to amuse a party of ladies, a crowd of workmen, and a club of practiced wit all in one day. As for children, they think no one understands how to play with them as he does. He told a story at the Chamberlain dinner the other night of a duke running for Congress in a down-town district and saying to a friend: "How to play with them as he does."

"Faw d'ye mane by insulting decent people that way? If this is a low call, I'd like to know where you'll find a high call."—Chicago.

Changing the Order.

Agitation for a revolution in the manner of addressing mail matter is going on in Chicago. The new plan seems to be the reverse of the present order of addressing—instead of the person's name coming first that of the country, followed by the State, then the city and street, and finally the name.

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moon, if there be any at night, and bright sunshine during the day.

Our relative position toward a storm in connection with it may be readily seen on the diagram. If the storm passes by well north of us we have the warm southerly winds, the northward-sailing cumulus clouds, the fair weather with its yellow moon and red sunsets, followed, as the storm passes our meridian, by cool, westerly winds and a continuation of fair weather. We escape the winter side of the storm. If it comes up from the southwest and moves about as represented on the diagram we will experience the weather conditions of both its front and rear portions. If it comes up from the southeast and moves along the Atlantic coast we will have only its winter side. If we have a southeasterly wind and the usual premonitions of an approaching storm we may know by watching the wind whether the center of that storm is coming directly toward us or whether it will pass north or south of our locality. Should the wind continue from the southeast the storm will pass over us. Should the wind change to north-easterly, the storm is coming directly toward us or whether it will pass north or south of our locality.

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HOWARD'S LETTER.

THE SHOP-GIRL PROBLEM MYSTIFYING ALL SORTS OF PEOPLE.

Generally the Brightest and Best-dressed Women of New York—Their Wages and How They are Spent—Thoughtlessness and Selfishness on the Part of Employers.

The shop-girl problem mystifies all men and many women. New York shop-girls are divided into many grades, but they are of a common species.

Now and then some absurdly sensitive member of the guild designates herself as a "saleslady," without pausing to think how absurd it would be to speak of her fellow-clerk as a saleslady, and there is a tradition that in a popular bar on Fourteenth street the woman in charge is recognized as the "forelady," while her masculine companion, who does similar service to the firm in superintending men and boys, has to be content with the appellation of a foreman, well knowing that if he were to call himself forelady he would be regarded as a dude and treated as a fraud. However stupid and careless individuals among this class of useful members of trade society may be, as a general thing the shop-girls of New York are bright, quick-witted, attentive and exceptionally well dressed.

Dressed? Ah, that's the interesting question. The weekly pay of these girls runs from \$3 to \$7. Now and then we hear of a phenomenon who receives \$10, but the vast majority get \$5, and quite a number get \$6. For the sake of sensible argument let us strike an average, and say that the wages of a shop-girl in New York city are \$4 a week, year in and year out.

What does she do with it? Well, in the first place, she has to have a place in which to live and a table with which to support her life. She must have underclothes and neat, if not gaudy, dresses, and suitable apparel for the street when going to and from her employment. In the first place, it is no easy thing to obtain a situation as shop-girl. People unfamiliar with that sort of thing would be surprised at the amount of red tape and influence—literal influence—necessary to procure the humblest position for bright and capable and willing girls. Of their work it is unnecessary to speak. In some stores they